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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,358	09/19/2003	William Edward Starner	CVC-0004	8362
23377	7590	09/06/2006	EXAMINER	
WOODCOCK WASHBURN LLP ONE LIBERTY PLACE, 46TH FLOOR 1650 MARKET STREET PHILADELPHIA, PA 19103			FEELY, MICHAEL J	
		ART UNIT	PAPER NUMBER	
		1712		

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/666,358	STARNER ET AL.	
	Examiner	Art Unit	
	Michael J. Feely	1712	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 June 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) 1-19 and 44-51 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 20-43 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Pending Claims

Claims 1-51 are pending; claims 1-19 and 44-51 are withdrawn from consideration.

Previous Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. The rejection of claim 30 under 35 U.S.C. 112, second paragraph, has been overcome by amendment the claim.

Previous Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The rejection of claims 20-43 under 35 U.S.C. 103(a) as being unpatentable over Nugent, Jr. et al. (US Pat. No. 5,438,109) has been withdrawn.

New Claim Rejections – 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

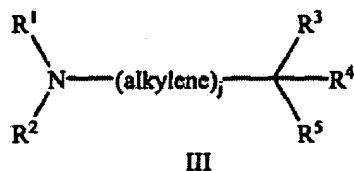
(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent, or

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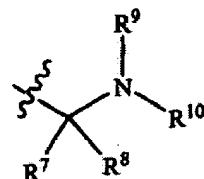
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 20-26, 28, 30-37, and 39-43 are rejected under 35 U.S.C. 102(a) as being anticipated by Kamae et al. (WO 02/081540). US 2004/0044147 is an English equivalent of this WIPO document, and it has been relied upon as an English translation document. All citations are directed towards the US publication.

Regarding claims 20-26, 28, 30-37, and 39-43, Kamae et al. disclose: (20) a polyepoxy resin composition (Abstract) comprising a compound of formula III:



wherein R¹ and R² are each independently alkyl or -(alkylene)-epoxyethyl; R³ is alkyl, aralkyl, or aryl, wherein said alkyl, aralkyl or aryl is optionally substituted with 0-5 Z; Z is:

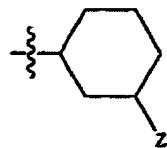


R⁷ and R⁸ are each independently H, alkyl or aryl; R⁹ are each independently alkyl or -(alkylene)-epoxyethyl; j is the integer 0 or 1; provided that at least two of R¹, R², R⁹ and R¹⁰ are -(alkylene)epoxyethyl (paragraphs 0038 & 0041); and a carboxylic acid (Abstract; paragraphs 0057 & 0068)

(21) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is at least about 0.8 (paragraph 0059); (22) wherein the ratio of

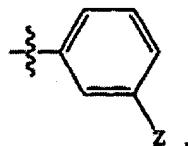
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carboxylic acid equivalents to amine equivalents of the compound of formula III is of about 0.8 to about 5 (paragraph 0059); (30) wherein R³ is:



(paragraphs 0038 & 0041); (23) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is of about 0.8 to about 2 (paragraph 0059); and (24) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is of about 0.8 to about 1.5 (paragraph 0059);

(25) wherein said aryl is:



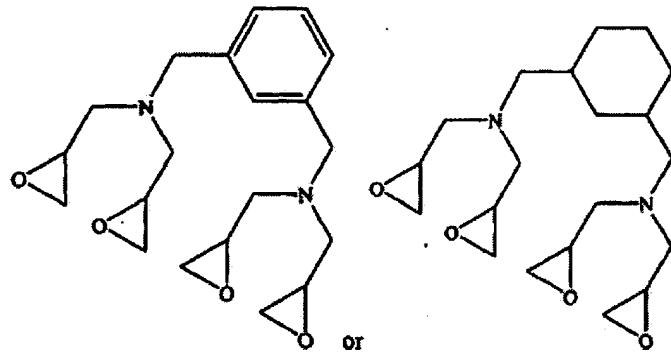
wherein R⁷ and R⁸ are each H, wherein Z is -CH₂NR⁹R¹⁰, and each of R¹, R², R⁹, and R¹⁰ is:



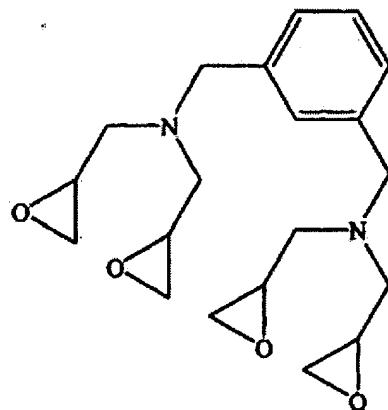
(paragraphs 0038 & 0041); (28) wherein said composition is substantially water soluble (*inherent of the materials set forth in the reference – see MPEP 2112.01*);

(26) wherein said composition is substantially water soluble (*inherent of the materials set forth in the reference – see MPEP 2112.01*);

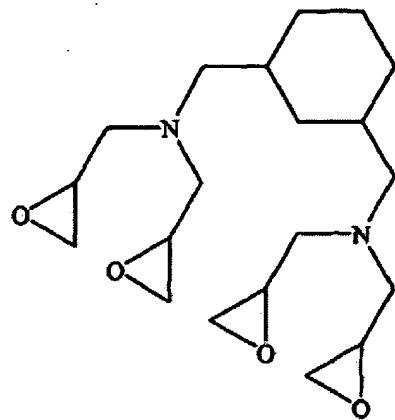
(31) a coating produced from a mixture comprising: (a) the polyepoxy resin composition of claim 20; and (b) a curative (Abstract); (32) wherein the carboxylic acid is acetic acid (paragraph 0068); (33) wherein the compound of formula III of said polyepoxy resin is:



(paragraphs 0038 & 0041); (34) wherein said formula III compound is:

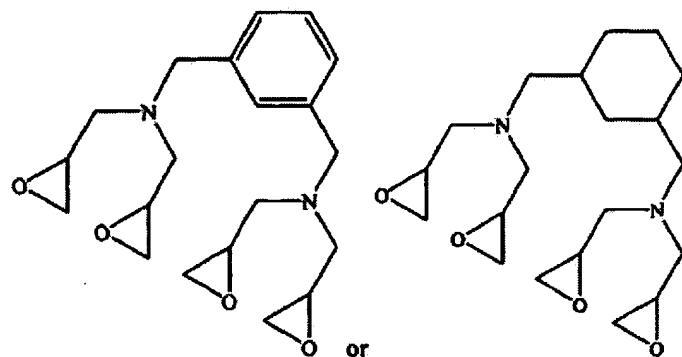


(paragraphs 0038 & 0041); (36) wherein the carboxylic acid is acetic acid (paragraph 0068); (35) wherein said formula III compound is:

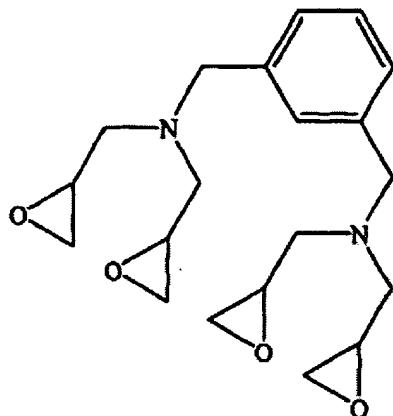


(paragraphs 0038 & 0041);

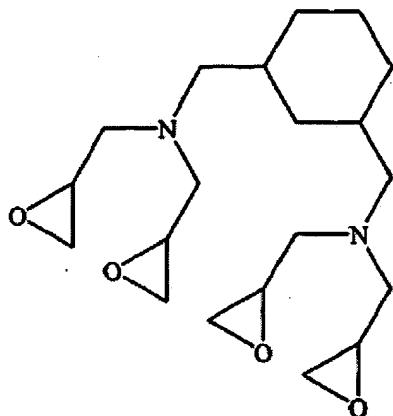
(37) a kit for forming a coating produced from a mixture comprising the polyepoxy resin composition of claim 20 (*grouping of the claimed materials inherently satisfies the generically claimed "kit"*); **(39)** further comprising a curative (Abstract); **(40)** wherein the carboxylic acid is acetic acid (paragraph 0068); **(41)** wherein the compound of formula III is:



(paragraphs 0038 & 0041); **(42)** wherein said formula III compound is:



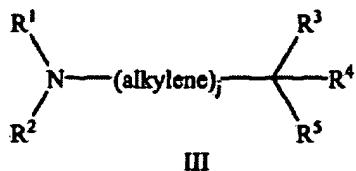
(paragraphs 0038 & 0041); and (43) wherein said formula III compound is:



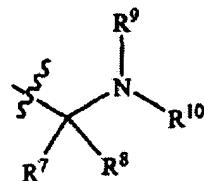
(paragraphs 0038 & 0041).

7. Claims 20-31, 33-35, 37-39, and 41-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimoda et al. (WO 02/066536). US 2004/0059085 is an English equivalent of this WIPO document, and it has been relied upon as an English translation document. All citations are directed towards the US publication.

Regarding claims 20-31, 33-35, 37-39, and 41-43, Shimoda et al. disclose: (20) a polyepoxy resin composition (Abstract) comprising a compound of formula III:

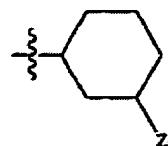


wherein R¹ and R² are each independently alkyl or -(alkylene)-epoxyethyl; R³ is alkyl, aralkyl, or aryl, wherein said alkyl, aralkyl or aryl is optionally substituted with 0-5 Z; Z is:



R⁷ and R⁸ are each independently H, alkyl or aryl; R⁹ are each independently alkyl or -(alkylene)-epoxyethyl; j is the integer 0 or 1; provided that at least two of R¹, R², R⁹ and R¹⁰ are -(alkylene)epoxyethyl (paragraphs 0048 & 0051); and a carboxylic acid (Abstract);

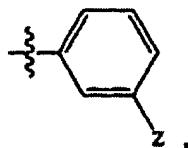
(21) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is at least about 0.8 (paragraph 0060); (22) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is of about 0.8 to about 5 (paragraph 0060); (30) wherein R³ is:



(paragraphs 0048 & 0051); (23) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is of about 0.8 to about 2 (paragraph 0060); and (24) wherein the ratio of carboxylic acid equivalents to amine equivalents of the compound of formula III is of about 0.8 to about 1.5 (paragraph 0060);

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(25) wherein said aryl is:

wherein R⁷ and R⁸ are each H, wherein Z is -CH₂NR⁹R¹⁰, and each of R¹, R², R⁹, and R¹⁰ is:

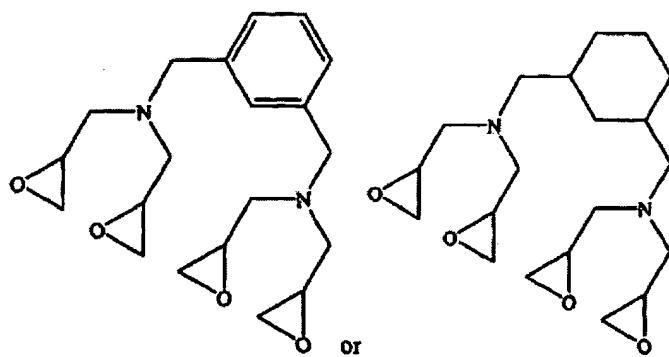
(paragraphs 0048 & 0051); (28) wherein said composition is substantially water soluble

(inherent of the materials set forth in the reference – see MPEP 2112.01); and (29) further comprising water (paragraph 0042);

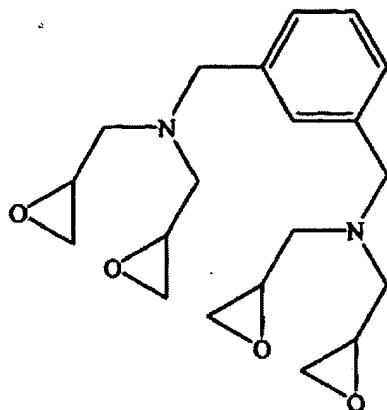
(26) wherein said composition is substantially water soluble (inherent of the materials set forth in the reference – see MPEP 2112.01);

(27) further comprising water (paragraph 0042);

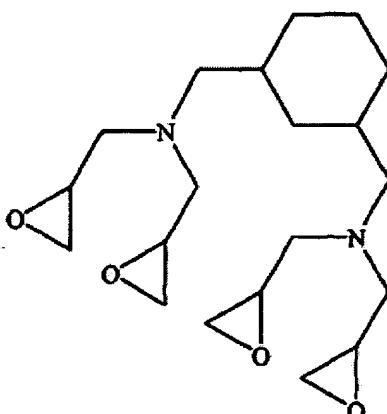
(31) a coating produced from a mixture comprising: (a) the polyepoxy resin composition of claim 20; and (b) a curative (Abstract; paragraph 0063); (33) wherein the compound of formula III of said polyepoxy resin is:



(paragraphs 0048 & 0051); (34) wherein said formula III compound is:

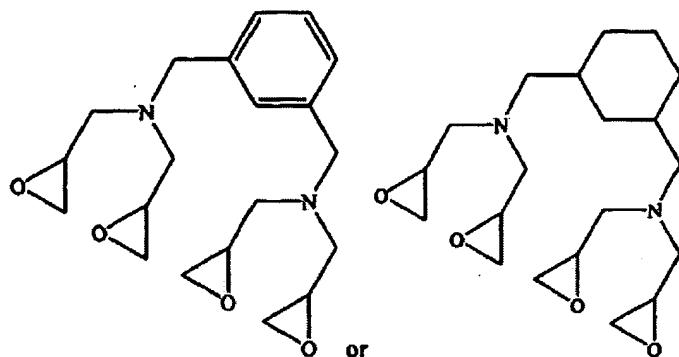


(paragraphs 0048 & 0051); (35) wherein said formula III compound is:

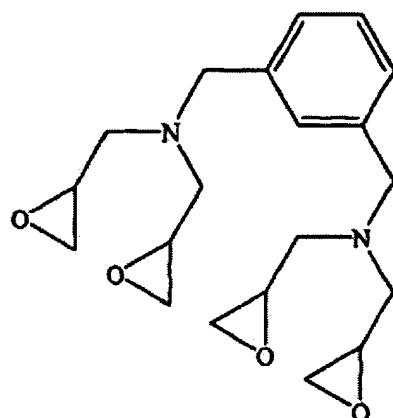


(paragraphs 0048 & 0051);

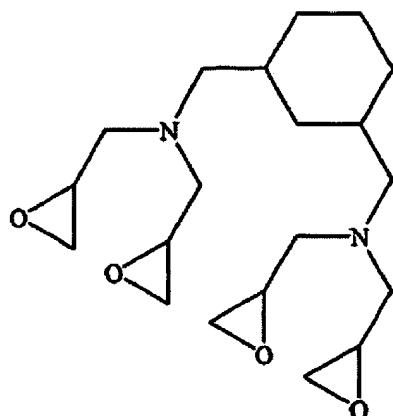
(37) a kit for forming a coating produced from a mixture comprising the polyepoxy resin composition of claim 20 (*grouping of the claimed materials inherently satisfies the generically claimed "kit"*); (38) further comprising water (paragraph 0042); (39) further comprising a curative (paragraph 0063); (41) wherein the compound of formula III is:



(paragraphs 0048 & 0051); (42) wherein said formula III compound is:



(paragraphs 0048 & 0051); and (43) wherein said formula III compound is:



(paragraphs 0048 & 0051).

Response to Arguments

8. Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Feely whose telephone number is 571-272-1086. The examiner can normally be reached on M-F 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Michael J. Feely
Primary Examiner
Art Unit 1712

September 4, 2006

**MICHAEL FEELY
PRIMARY EXAMINER**